January
Vol. 9

SAN ANTONIO RADIO CLUB
BULL-ETIN

1978
No. 2

President	George James WB5LDN	Meets first and third Fridays at 7:30 PM (Sharp) at the Red Cross Bldg. 90 Brees St. All who have an interest in Amateur Radio are cordially invited to attend. Note- The door is locked at 7:30 PM, If you arrive late ring the door bell.
Vice Pres.	(Ray Wangler, Acting) W5EDZ	
Secretary	Larry Humlicek WA5PAF	
Treasurer	Gale Booher WB5MMI	
Sgt-at-Arms	(Mercer Richardson, KOVIF, Acting)	

Bull-etin Editor (Bob Via Wb5FDT, Acting)
Assistant Editor Mercer Richardson KOVIF
Circulation Manager (wanted)
Typst Homer Driesslein K5MEN
Typst Jim Shoff WB5MZK

Full permission is granted for reprinting articles appearing in the BULL-ETIN provided credit line is given to San ANtonio Radio Club BULL-ETIN and, in reprinting, to author and publication from which orginal article appeared. Letters to the Editor should be addressed to: 6827 Spring Hurst, SAT 78249.

****

Acting Editor's Comments Bob Via WB5FDT

This is a special issue of the BULL-ETIN dedicated to providing information about Area Amateur Radio Organizations. I hope you will find the information useful. Because of a deadline in getting the material to the printers, there was no time to retype some of the articles and they had to be printed "AS IS". I wish to thank Tex and Ed Kennedy for collating, folding and stapling the December issue on such a short notice. Also a special thanks to Larry Humlicek for obtaining and transcribing the articles on the various Radio Organizations contained in this issue. Mercer Richardson, our BULL-ETIN'S Assistant Editor has agreed to Edit and be Responsible for our Feburary issue of the BULL-ETIN. His closing date for articles and want ads will be January 20, 1977 at the third friday meeting of the SARC. You may give your articles directly to Mercer, or give them to me and I will forward them to Mercer, KOVIF/5. I wish to each of you a Happy New Year. Best Regards Bob WB5FDT.....

****

NOTICIAS

January 6 Club Meeting - Newcommers Night

January 20 Club Meeting- Modern Techniques in Soldering IC's & Micro Modules Part I

February 3 Club Meeting- Modern Techniques in Soldering IC's & Micro Modules Part II

February 17 Club Meeting- To be announced

For information about the Alamo DX Amigos- Please see the December issue of the BULL-ETIN

To place a free Want Ad in this Bulletin, send copy in writing to Editor. The item must concern Amateur Radio and be non commercial in nature (an item that you are selling privately as an individual).

NOVICE CLASS - Starts January 9, 1978 at John Jay High School, runs for 5 weeks , meets Mon & Wed 7-10pm, code and theory, call Larry Lentz N5LL at 732-4554 for Reg.& info.

NOTE- Deadline for articles and Want ADs for the March Issue of the BULL-ETIN will be February 3, 1978 at the First Friday meeting of the SARC. (The final deadline for the February Issue is January 20, 1978 meeting, give copy to Mercer) If you are typing your article, be sure to single space and do not leave a space between paragraphs, indent your paragraphs 5 spaces.

CONTESTS & OPERATING EVENTS
By Jim Wright, K5CDT

Date	Event	Further Information
January 21-22	VHF Sweepstakes	QST, December 1977, Page 69
January 28	Simulated Emergency Test	QST, December 1977, Page 70 and Bexar County EC Ivan Mangold, WA5RNV
February 4-12	Novice Roundup	QST, January 1978
February 11-12	Ten-Ten Winter QSO Party	Ten-Ten Bulletin, Fall, 1977 Page 13 or Robert Osborn, WA5JDU, or Jim Wright, K5CDT
February 4-5 & March 4-5	DX Competition Phone	QST, December 1977, Page 67
February 18-19 & March 18-19	CW	
June 24-25	Field Day	QST, May 1978 and San Antonio Radio Club meetings

There are, of course, many events other than those listed which may be of interest. The "Operating Events" column in QST should be consulted each month. Any amateurs in the San Antonio area wishing to publicize an event or contest in this column should submit complete information to this writer.

Special attention is drawn to 1977 Field Day results published in QST, December 1977, Page 74. W5SC/5 appears as second place in Class 8A (page 81). As shown, we made 2,846 contacts and accumulated 7,466 points. All of the groups and individuals who operated and assisted are to be congratulated for a job well done.

****

WANT ADS

Wanted- Collins 312B5 ; Collins KWM-1 ; phone 656-4084 WB5WLK

Wanted - 2-meter Rig, cheap (under $100.00). If it works, I'm interested. Call Bob Curtis WB5WAE after 6 p.m. - 673-7775.

NOTES FROM THE LUCKY DARN NOVICE

I would like to thank all the amateurs in San Antonio and our out of town visitors for their support of the Christmas Party. There were thirty-seven prizes given out that evening, totaling $1,370. An early Christmas was had by some of the lucky winners. I want you all to mark your calendars now for next years party so you can plan to make it. The 1978 party will be held on December the 2nd at the Arden Grove Party House. We will start taking reservations in October!!!

I would like you all to know that the party would not have been the success it was without the help of Dean Davis, W5BGE, and Chris James. Dean was a life saver to me. He got the party rolling by getting the notices printed and mailed out, as well as being the clubs' number one ticket salesman. Dean is truly the master of the Christmas Party. Chris and her decorating committee did an outstanding job and I understand plans for next years decorations are already in the works. Chris' committee consisted of Hazel Albright, Fran Anderson, Lucille Shean, and Maybell Davis. We all (196 attendees) thank you for an excellent job.

The Christmas Party is one example of what your Radio Club dues do for you. Many of you may not have noticed, but the tickets to the party decreased in cost this year. The club donated $2.00 to the Christmas Party fund for every attendee to help defray the cost of the dinner. In addition, your club dues are used to support the annual ARRL field day activities, the clubs monthly bulletin, special meeting programs, and this year, publish the San Antonio Amateur Radio Clubs "Green Book". All members of the San Antonio Radio Club will receive a copy of the "Green Book".

The "Green Book" is the name given to the roster of amateurs belonging to the several different organizations within San Antonio and Bexar County. It is compiled from the organizational rosters provided to the San Antonio Radio Club and includes the members name, address, call sign, telephone number, class of license, and an alpha code as to what organizations they belong to. You will notice on your address label of this bulletin, an alpha code above your name. Please check this code against the codes on the membership application and your address. Let me know if there are any corrections.

I hope the holidays have been good to you all. I'm sure that new radio that some of you received will be put to good use. Best wishes to you all in the New Year!

73's

George

WB5LDN

UPCOMING CLUB MEETING PROGRAMS

The Club meeting programs for January will include "Newcommers Night" on January 6, 1978, and "Modern Techniques in Soldering ICs and Micromodules, Part I" on January 20, 1978.

On "Newcommers Night" the ARRL movies, "Hams Wide World" and "Moving up to Amateur Radio" will be shown. These two films are an excellent way to show a newcommer what Amateur Radio is all about and give the old-timer a look at what's new in Amateur Radio. Bring a friend to the meeting!!!!!!!

The program, "Modern Techniques in Soldering ICs and Micromodules, Part I" will be presented by Ralph Scheleicher from Southwest Research Institute. Ralph will let us in on new and proper ways to solder those ICs, MPUs, and other microelectronics. If you don't do it right the first time, there is a good chance that IC will be damaged. Part II of this program will be presented on February 3, 1978, so plan on being there.

CQ CQ CQ CQ CQ DE W5SC SAN ANTONIO RADIO CLUB

To all Members, Past, Present and Future!!!!!!! San Antonio Radio Club dues for 1977-78 are due. Dues are $6.00 plus $1.00 for each additional family member. Payment should be mailed to George James, WB5LDN, 7407 Castle Trail, San Antonio, Texas 78218 or made at club meetings.

When you make your dues payment, please be sure to complete and mail the form below. This will help us to set up a complete membership file and club roster. The mailing list for the SARC Bull-etin and other related materials will be compiled from this information. Don't miss any of it!!!!!!!!!!!!!!!

Remember, the San Antonio Radio Club has meetings on the First and Third Fridays of each month at 7:30 pm. The meeting place is the Red Cross Building, 90 Brees Ave. This year the Club will have a program at every meeting, and each program will have a little something for everyone. SO COME ON DOWN!!!!! We would like to see you!!!!!

(Please type or print clearly.)

Call_____ Class of License_____ Did you upgrade this year?_____

Name_____ Handle _____
Last First MI

Mailing Address_____
Street City State Zip

Phone Number _____ Member of: (a) DX Amigos___ (b) Alamo YLs____

(c) AREC_____ (d) ARRL ____ (e) ARRL Life Member ____ (f) S.A.R.C_____

(g) S.A.R.O._____ (h) S.M.I.R.K ____ (i) S.T.A.R.S _____ (j) Telephone Pioneers____

(k) Texas VHF-FM_____ (l) QCWA____ Other_____

Your Suggestions or Comments:

QCWA

The Quarter Century Wireless Association is open to all amateurs that have 25 or more years experience as a licensed ham. The national headquarters are located in Erving, Texas. Most major cities in the country have a local chapter. The San Antonio Chapter has 52 members. Meetings are held quarterly on a Saturday at Wyatts Cafeteria on Babcock and 410. QCWA has helped the SARC on FD on 20 meter CW. Many local members of QCWA are also members of the Alamo DX Amigo's.

The local chapter was formed on March 1, 1968. The charter members are: Willard Cormack W5FND, Robert W. Carr, Jr. W5XU, Dean Davis W5BGE, Howell Dickson W5FKR, Les Essington W5BE, Herb Eversole W5DJA, Gene Jank W5EJT, Kirk Jonas W5EOX, H. Frank Jordan W5EDX, Dr. C.M. Phillip W5KA, and Joe Porter W5EIS.

The next regular meeting will be election of officers, to be held on the 3rd or 4th Saturday in January. The San Antonio Chapter has members from Houston, Kerrville, Seguin and Bandera. Annual dues are $5.00, renewable on need. A monthly newsletter is sent out to all members. For more information you may contact me at 733-9632.

********** Ray Wangler ** W5EDZ **********

THE ALAMO YL'S

By Barbara Humlicek

The Alamo YL's (Alamo Ladies Amateur Microphone Organization) was organized in September 1959 for local licensed YL's and those interested in becoming amateurs. The charter members include W5IOZ Paula Bettis, W5KQG Francis Bruemmer, K5OPS Ethel Chastain, K5OPT Ruth Jank, K5OPV Alene Turnage, W5TSE Ella Munch, W5WXT Inez Cole, K5YCE Jerry Buchannen, K5TSE Katherine Pirie and K5PDT Mary Carmack (deceased).

The Alamo YL's hold bimonthly luncheon meetings at Wyatts Cafeteria next to the Broadway Bank. Election of officers occurred at last luncheon meeting, December 10. Francis Bruemmer W5KOG is our new president and Inez Cole W5WXT our secretary/treasurer for 1978.

The Alamo YL's hold a 40 mtr. YL visit at 11:00 a.m. Tuesday, the frequency is 7295 KHZ. A 2 mtr. visit on Thursday evenings at 8:00 p.m. on 146.52 MHZ. OM's are welcome.

We have a beautiful certificate for working 5 Alamo YL members. This certificate is available to OM's also. Inez Cole W5WXT is certificate chairman. Mail her a list of 5 worked Alamo YL's with date and frequency plus 50¢ for mailing.

Alamo YL's dues are $2.00 a year. If you are interested in joining, call Ruth K5OPT at 342-2225. We will look forward to working you on our radio visits.

********** 33's WB5GAH **********

10-X AND BLUEBONNET CLUBS by Robert WA5JDU

In April 1962 the TEN-TEN (10-X) was organized by a small group of amateur's in Sam Demos, California. It's purpose was to keep the 10 meter band active. They called it the 10-X Net, because they met at 10 o'clock in the morning on 10 meters. At first it was a regular traffic net, and 10-X numbers were issued later. The exchanging of 10-X numbers keep the band very active, and made the net grow fast.

On March 24, 1969, the 10-X International of Southern California was incorporated. 10-X numbers became so popular that chapters started forming and issuing certificates with chapter numbers to keep the band active in their local areas. There are now about 200 chapters in the U.S. and other countries. The 10-X Net of Southern California is now called the 10-X International Net, Inc. because it is a world wide organization with chapters all over the world.

To get a 10-X number, one must work 10 numbers. Send the date of contacts, time of start and end of QSOs, call letters, names, QTHs and 10-X numbers, along with $4.00 to K5MRU, Grace Dunlap, P.O. 445, La Feria, Texas, 78559. You will be issued a certificate and a number which will be your personal 10-X number for life. After receiving your number, you may continue collecting numbers if you wish. Send groups of 100 numbers in numerical order to W4JO to add to your certificate. A desk plaque is awarded for working 1000 numbers. Awards are also presented for working 2500 and 5000 numbers.

In May 1976 we felt the need of a local chapter in San Antonio. The Bluebonnet Chapter was formed, named for the state flower of Texas. On charter night 69 hams checked in, 18 of them were South Texas Charter members. The Net meets every Sunday night at 9:00 p.m. local time on 28,265 KHz. The purpose of the net is to help hams to get a 10-X number, a Bluebonnet certificate, and number, and to keep 10 meters avtive. Robert WA5JDU is chapter head and Jim K5CDT is the certificate manager. To get the Bluebonnet certificate one must have a 10-X number and work 5 Bluebonnet members, one of which must be a South Texas Charter member (numbers 1 through 18). Send log info and $1.25 to Bluebonnet Chapter, P. O. 5421, San Antonio, 78201. The Chapter offers 2 VIP awards. The Mocking Bird Seal, named for the State Bird of Texas, and The Alamo Certificate. The Mocking Bird award requires 50 points and the Alamo requires 100 points. A Bluebonnet number is worth one point and a Mocking Bird or Alamo number is worth two points towards the VIP awards. No fee is charged for the Mocking Bird Seal except a SASE. The fee for the Alamo award is $1.00. All log info for local awards should be sent to the chapter P.O. box address.

The many chapters throughout the world issue certificates similar to ours. For a 10-X certificate and net directory send a business size SASE to WAOYNQ, Chuck, 2653 South Cook Street, Denver, Colorado 80210.

The 10-X Winter QSO Party will be held the 2nd weekend in February, starting at 6:00 p.m. local time Friday, to 6:00 p.m. local time Sunday. Logs go to Grace, K5MRU. Logs should contain date, time, call letters, names, QTH, and 10-X number which counts as 2 points. Those worked without number, only 1 point.

The 10 meter band has been my favorite since 1965. Lately it has been terrific with the band open to Africa, Australia, New Zealand, and Japan. Join in on all the fun on 10 meters. You will like it!

********** Robert WA5JDU **********

SMIRK by Robert Clark K5ZMS

The Six Meter International Radio Klub has over 2400 members in 50 states and 24 foreign countries. The club was started on October 1973 by hams in San Antonio who were concerned with the great loss of 6 meter operators in the late 60's and early 70's. Many hams were using 6 meters, but 2 meter repeaters, smaller equipment, and TVI caused many hams to leave the band. In the spring and summer of 1973 Ray Clark, Tex Kennedy N5TX, Gene Barnes K5GE, Bill Moore K5OOJ, Carl K5DSF, Curtis W5PKE and others got together and talked about ways to increase the band activity. They thought of not just local, but national and even an international net. The nets would keep people on the band while the sunspots cycle was going through its minimum. By-laws were written. The name Six Meter International Radio Klub (6-6 net or "SMIRK" for short) was adopted. Tex was elected president. Gene was Vice-president, Ray was elected secretary-treasurer, and Bill Moore was elected net control station. New elections are held every year. The 14 board members have re-elected these charter officers over each year to date.

The club helps ARRL, contests, and other 6 meter activities. The membership grew rapidly into the hundreds by early 1974. It is doing well today with over 2400 members. To become a member of SMIRK one must work 6 members. The one time membership fee is $4.00 with no other dues.

The club has developed an awards program with seals given for working a certain number of memberships. A DX award can be obtained by working 10 countries on 6 meters. It is called DX Decade Club, a miniature DXCC. It is open to all 6 meter operators not just SMIRK members. SMIRK also formed a Bi-Centennial award, and are presently working on a YL award. A certificate can be obtained for working 1000 of the membership. The first station to do so was WB8GEW, Adrian in Ohio. The first station to win the DXDC award was Ray Clark with 11 countries worked since January 1976.

The club has a very good RFI program, maintaining a big folder on TVI and BCI problems. This information is available to all hams for the asking. The club has its own contest every year on June 5 before the ARRL VHF contest. The club is coordinator for VESNA (VHF Sporadic E Program over the North Atlantic) between France and this hemisphere with a 50.1 MHz beacon by FX3VHF. The club corresponds with European amateurs to try to help them get on 6 meters. The club has helped the San Antonio Radio Club for the last two years at Field Day, and has done very well.

SMIRK has a quarterly Newsletter. The net meets on Sunday nights at 8:00 o'clock local time on 50. MHz. SMIRK tries to act as a service organization to the people on 6 meters. They make the band exciting so hams will get on. The plan is working and many old and newcomers are using 6 meters and enjoying it greatly.

********** I'LL SEE YOU ON 6. Ray Clark K5ZMS **********

REPORT FROM SARO

On March 8, 1969, 13 hams met to elect officers and form the San Antonio Repeater Organization (SARO). Those 13 were: Dean Davis, W5BGE; Oly Runnels, W5BDN; Richard McGuire, W5PSQ; Larry Higgins, W5QMU; George Munsch, W5VPQ; George Loos, W5LFG; Johnny Bremmer, W5LVE; Theo Jett, call unknown; Les Eggleston, WA5GOQ; and Terry Turner, W5ETG. The officers elected were: Larry Higgins, President; Terry Turner, Vice-president; Richard McGuire, Secretary; and M.D. Harris, K5PKX, Treasurer. Trustee was George Munsch.

In 1976, SARO drew up a new constitution naming as its objectives:

1. To establish, operate, and maintain FCC approved Amateur radio repeater stations.
2. To render a public service with communications equipment and facilities.
3. To stimulate compliance with FCC rules and regulations.
4. To promote proper operating procedures and exchange of technical information primarily in the VHF/UHF frequency spectrum.

SARO maintains two (2) 2-meter repeaters, 146.22/82 (WR5ADH) and 146.34/94 (WR5ADJ). A third 2-meter repeater on 147.96/36 is in the making. We also maintain a 6-meter repeater 52.880/525 (WR5ADH) and a 450 machine 449.1 in and 444.1 out (WA5ADJ).

SARO is responsible to the Red Cross, the Salvation Army, and the National Weather Service during times of emergency or inclement weather.

As of December, 1977, SARO has 338 members, 55 more than in 1976. A new Board of Directors was recently elected, and will begin serving on 1 January 1978. It will include: Harvey Dapeer, K5DDJ, President; Tom Truehardt, K5EU, Vice-president; Nancy Riddlebarger, WB5MRQ, Secretary; Jim Wright, K5CDT, Treasurer; Chuck Kenworthy, WB5FWI, Director; and Bonnie Vernor, WB5FTH, Director. Our trustees are Neil Martin, WA5FSR, (WR5ADH); Bob Via, WB5FDT, (WR5ADJ); Gordon Dial, K5SUZ, (Our new repeater 147.96/36), and George Munsch, W5VPQ, (WA5UNH).

SARO enjoys meetings each Wednesday evening at 8:30 p.m. on 146.34/94 for an informal net. Our business meetings are held quarterly at the Red Cross Bldg, 90 Brees Blvd, at 7:30 p.m. Our next meeting will be Friday, January 31, 1978. Come join us!

********** HAPPY HAMMIN' ********** Bonnie, WB5FTH **********

ANTENNA TUNERS? ON FIELD DAY??? WHO NEEDS THEM?? WE DO!!! Let's all get out our antenna tuners even if you don't need it to tune the antenna you are going to match. Very little signal is lost through the tuner at the frequency of interest, but oh how much more any other frequency is. With all the 200 watt class transmitters operating near each other, it sure helps if any unwanted signals are greatly reduced prior to reaching the antenna and any that might overload those sensitive front ends of our receivers are also reduced. Let's help each other out this year -- bring your antenna tuners to Field Day! Don't forget the low pass filters and the power line filters.

WHAT IS YOUR FAVORITE FIELD DAY BAND AND MODE ???? The SARC President will start taking the names of groups and individuals wishing to operate a particular band/mode starting at the first meeting in JANUARY 1978! Get your request in early. The Field Day Chairman is requested to volunteer immediately.

****

STARS

South Texas Amateur Radio Society, Inc., has been in existence for one year. The goal of the club is to provide programs and activities for amateurs, communications enthusiasts, and their families. We exist to advance the radio art, to provide communications when needed, to assist those interested in our hobby and at the same time create fellowship among the amateurs of the area. We maintain an informal atmosphere and encourage family involvement. Regular meetings are held at the I. O. O. F. Lodge Hall, 6702 South Flores Street on the first and third Fridays of each month, (subject to change to the second and fourth Fridays when other facilities are available).

Club activities for the past year include film showings of various subjects, and presentations by qualified persons from the local area. Transmitter hunts are held the second Sunday afternoon of each month. The club has sponsored two auctions this year, and publishes a monthly newsletter "Word". The highlight of the year was "Field Day" operating with our new club station call WD5EZW. Plans for the next "Field Day" have already begun, and additional persons will be needed to participate.

The membership will elect officers in January. Committees will be formed and shortly thereafter Field Day assignments will be made. Yearly club membership dues are $6.00, but additional family members or students are $3.00. Several of our members are members of other local radio clubs and we invite other club members to join "STARS". You are always welcome when you visit "STARS".

********** 73's STARS **********

"TEX THE TRADER" Kennedy Associates, 2618 Rigsby, San Antonio, Texas 78222

We are open Saturdays, Call Tex, Craig or Woody for a trade ---- 333-6110.
FT227R Yaesh "Memorizer" is here! Come out and see it!! $299.00.
All other current Yaesh models in stock.
Wilson WE800, 1402 and 1405 in stock HT's w/TT pads.
Drake 1525 EM Touchtone Mikes -- $49.50.
Lots of trade-in equipment in stock: Collins, Drake, Heathkit, Galaxie, Icom, Yaesh FTV650B/FV101B/SP401/FV401/FTV250B.

CALL 333-6110 ----------OPEN SATURDAYS ---------- CALL 333-6110

REPORT ON SAN ANTONIO RADIO CLUB ACTIVITIES ---- by Les Essington W5BE

The Christmas party held Saturday, December 3rd at Arden Grove Party House established a new record with 198 local and area Hams, XYL's and YL's attending. This popular event of the year is always anticipated eagerly, as it affords local Hams and their Ladies such a wonderful opportunity to gather for renewal of friendships and the social amenities afforded. Some, who for one reason or another are unable to attend club meetings regularly, invariably manage to attend this outstanding event, and this additionally adds to its worth and pleasure. Those attending included members of every local radio organization and some from outside San Antonio. Besides San Antonio Radio Club, members from the following groups were in attendance: ALAMO DX AMIGOS, ALAMO YL's, AMERICAN RADIO RELAY LEAGUE, QUARTER CENTURY WIRELESS ASSOCIATION, SAN ANTONIO REPEATER ORGANIZATION (SARO), SIX METER INTERNATIONAL RADIO KLUB (SMIRK), SOUTH TEXAS AMATEUR RADIO SOCIETY (STARS), TELEPHONE PIONEERS, and Austin and Houston Chapters of QCWA. Due to a last minute problem with an airline flight, our South Texas ARRL SCM, Art Ross, W5KR, of Brownsville, was unable to make it, but he was quite ably represented by Assistant SCM, Tom Comstock, N5TC. Tom is a Professor at Texas A&M. It has always been said that "you can't keep a good man down", and this was proven by Roy Albright, W5EYB/N5RA, accompanied of course by his able partner and XYL, Hazel. Roy practically got up from a sick bed caused by a severe bout with Herpes Zoster (Shingles) because nothing was going to keep him from this event. He did have somewhat of a relapse subsequently, but it is pleasing to say that he is considerably better at this writing. Roy has had experience in things of this sort before, when as our outstanding ARRL Director for so many years he often brushed off some sudden indisposition to brave the rigors of weather, though it may be cold, rain, heat or sleet, to represent us in his many travels to ARRL headquarters and other national meetings, often at a sacrifice not only of his personal time and comfort, but often without remuneration. The party was honored with the presence of another devoted ARRL worker, Jerry Connaway, W5KLV, Treasurer of South Texas Emergency Net, and traffic handler par-excellence. Jerry often tops them all in messages handled, and daily meets so many nets he couldn't begin to count them on his fingers. Some old timers seen were Otto Richter, W5FFG; "Pete" Peterson, W5OY; XYL, Del of Austin; Joe "Pat" Patterson, and Otis. As Pat is VY and Pete is OY, that makes two "Ys", Hi! Incidentally, Pete, Pat, and SYL Otis all put in many years with the FAA, Likewise Johnny Bruemmer, W5LVE, who is retiring from FAA this month. We expect to see more of Johnny and XYL, Frances, W5KQG, upon Johnny's return to San Antonio. Another FAA retiree and former San Antonian present was Monty, N5EN, and XYL, Rose. Monty lives in Houston, but has been coming to the party for years. Speaking of Pat, W5VY, few are unaware of his pioneer work in VHF, with direct DXing, Moonbounce, Satellite, and OSCAR achievements. Back in the thirties he was an outstanding HF DXer also. Records were set not only in attendance but in the quantity and quality of numerous fine prizes made possible by contributions from many, many individuals, and from the following firms whose concessions and contributions are herewith gratefully acknowledged:

A-1 Engraving Co.
Electronic Service Co.
Heath Company
Kennedy Associates, Inc.
Palomar Engineers
Sherman Electronics

The main prize was won by Newton Bodine, K5PIB, who has yet not decided on which of the six options he will select. It's a great variety, to be sure, and having mixed feelings over which to select is understandable. Summing it all up, the reason for the huge success of this party is due to the many housr and days of hard work and endeavor put forth by all who served on the party committee and many who assisted in getting out record numbers. Special credit must go to Dean Davis, W5BGE, who for so many years put forth the effort which has resulted in this continuous growth. We nominate Dean the "Dean" of party organizers.

SARC RECEIVES ARRL CERTIFICATE OF MERIT

SARC has just received from League Headquarters a Certificate of Merit awarded in recognition of achievements in the 1977 ARRL Field Day. The Certificate will be displayed at the next SARC meeting.

OFFICERS, BOARD, ACTIVE

SARC Officers and Board of Directors have been working diligently and holding monthly Board meetings, the last three at the residence of George and Chris James, whose hospitality has made these meetings possible. Only by such continuous study, discussion, and implemention of ideas and thoughts can your club prosper, grow, and keep abreast of the times. Much time, work, and planning is being expended toward insuring the future success and growth of SARC, and you can be sure, your club is in interested, capable hands.

SAN ANTONIO - HOUSTON +

It is with much regret that we note San Antonio's loss and Houston's gain of Bill Eckenrode, W5SG, Vice-president and ardent worker of both San Antonio Radio Club, and Alamo DX Amigos. We all miss you, Bill, but are wishing you great success in your new assignment. Adios, Aloha, and good DX-ing!

and that is "30" and 73 from

LES - W5BE

****

San Antonio Telephone Pioneers Amateur Radio Club

Telephone Pioneers of America

The purpose of the San Antonio Telephone Pioneers Amateur Radio Club is: "--to further exchange information and co-operation between members, to promote radio knowledge, fraternalism and individual operating efficiency, to so conduct club programs and activities as to advance the general interest and welfare of amateur radio in the community, and to co-operate with the American Radio Relay League."

Membership is open to all persons interested in Amateur Radio who are Telephone Pioneers or are employed by an AT&T associated company. Currently, the club station, WD5CYX, is located in Room 1308, at 1010 N. St. Mary's Street, San Antonio, Texas. Meetings are held on the second Tuesday of each month at 7:30 p.m.

********** Homer Driesslein K5MEN **********

Telephone Pioneers of America

The San Antonio Telephone Pioneer's Amateur Radio Club, WD5CYX, is proud to announce the activation of an "auto-patch" on the club sponsored ".07 - .67" repeater, WR5AMR. All members of San Antonio's repeater clubs and radio clubs are invited to use the repeater and "auto-patch".

"Auto-patch" procedures are:

Step 1: Use the * to access the "auto-patch".
Step 2: Identify yourself by call, give the date and time, and say: "Calling a local number". Five seconds later, the dial tone will come on.
Step 3: Dial your number and have your conversation.
Step 4: Use the # to release the "auto-patch".

The "auto-patch" has a speed-dialing feature. When one of the speed-dialing numbers is dialed as the first and only digit, after a five second wait, the appropriate seven digit number will be dialed automatically. The speed-dialing numbers are:

Number	Organization Dialed
2	Police Dispatcher
3	Fire Dispatcher
4	E.M.S.
5	Bexar County Sheriff Department
6	Department of Public Safety

The calling restrictions for the use of the "auto-patch" are the same as those for the use of the San Antonio Repeater Organization. DO NOT use the "auto-patch" for any business type calls, and DO NOT use the "auto-patch" when the origination of the radio signal is outside Bexar County. Optimum deviation for dialing tones is 2.0 KHz.

Homer P. Driesslein, K5MEN
WD5CYX Trustee

L. Walter Stiles, WB5FNZ
WR5AMR Trustee

****

The following article is taken from the Off Resonance bulletin of the Texas Southmost Amateur Radio Club, Inc. It was originally featured in the JSC Club paper, then run in the HARC News.

ANTENNA GAIN

Ken Schnell, W5OBR

This will be a short article to discuss the gain of antennas. I always get confused when someone quotes me a gain of a particular antenna. The confusion arises because I don't know what baseline or reference point he is using. Normally in measuring HF

ANTENNA GAIN (Cont'd)

antenna gain, the figures are referenced to those obtained by using a horizontal half-wave dipole. In the FM communications field, the reference for gain is still a half-wave dipole, but mounted in the vertical plane. So far as the F. C. C. rules are concerned, antenna gain is based on a half-wave dipole reference. This can be important because many antenna manufacturers use an isotropic source as a reference for listing the gain of their antennas. (An Isotropic Source is a "point" antenna radiating equally in all directions. Ed.) A common antenna (and the simplest) is the 1/4 wavelength whip perpendicular to a ground plane. By comparison to an isotropic source, this antenna shows a gain of 0.3 db. Additionally, the 1/2 wavelength antenna shows a gain of 2.1 db over the isotropic or 1.8 db gain over a 1/4 wavelength antenna. The common 5/8 wavelength antenna, that we see so often on mobiles, has a gain of 1.2 db over the 1/2 wavelength or 3.3 db gain over the isotropic. Higher omni-directional gain (omni-directional means equal in all directions. Ed.) is usually obtained by using stacked half-wave dipoles. As an example, four stacked half-wave dipoles on 146 MHz can provide approximately 6 db gain. Usually the maximum number of half-wave elements stacked vertically will be eight, which provides an omni-directional gain of about 9 db.

The following chart provides a quick reference for gain of the various common antennas:

ANTENNA TYPE	GAIN(db)	ANTENNA TYPE	GAIN(db)
Isotropic	0.0	5/8 Wavelength	3.3
1/4 Wavelength	0.3	Colinear	6.0
1/2 Wavelength	2.1		

****

THE AMERICAN RADIO RELAY LEAGUE

"In the beginning - - - - - - - - - ." On a cold December day, in the year 1901, young Guglielmo Marconi put together the accumulated knowledge of Faraday, Maxwell, Hertz, Heaviside, Bell, Edison, and many others of scientific bent to establish communication by wireless from St. Johns, Newfoundland to Poldhu, Cornwall, on the southwest tip of England. This historic first startled and excited the entire world, particularly to those great minds who had been struggling so long to provide man with the means of communicating over great distances without the use of intervening wire lines.

With the news of Marconi's success in spanning the Atlantic it was inevitable that thousands of electrical and other technical experimenters of the day should embrace this fascinating mode of transmitting intelligence.

Following closely upon the heels of Marconi, Dr. Lee DeForest, in the year 1906 introduced the three element vacuum tube. This profound advancement, coupled with Edwin Armstrong's development of the regenerative detector circuit enhanced the sensitivity of a radio receiver more than 500 times! With these innovations radio communication, as we know it today, became a practical reality.

THE AMERICAN RADIO RELAY LEAGUE (Cont'd)

With the coming of radio law, in the form of the Radio Act of 1912, 1185 amateur station licenses were issued by the U.S. Government, and by June 30, 1914, the number exceeded 5,000.

Experimenters and communicators soon began to band together in local radio clubs, or societies, whose purpose was the exchange of information concerning this fantastic new field of interest. Perhaps surprisingly, the first of these clubs on record was the Radio Club of Salt Lake City (Utah), founded in September, 1909.

One of the early radio clubs was formed in Hartford, Connecticut, in January 1914, with Hiram Percy Maxim in the chair. This brilliant engineer was already known nation-wide for his automobile engineering, and invention of the Maxim Silencer. Hiram Percy Maxim, the beloved Old Man of early QST fame more than any other individual was responsible for the guidance of amateur radio in its inception and through the troublesome early years. To him we owe a debt which can never be fully repaid.

There is an old saying that "from a small acorn, giant oaks grow". So it is with the American Radio Relay League. Almost immediately with the advent of DeForest's audion, production could not begin to meet the demand. Maxim tried, but could not obtain one. He then heard of an amateur in Springfield, Conn., some 30 miles distant, who had one for sale. Maxim fired up his transmitter, which had a normal range of 100 miles, but was unable to raise the Springfield station because of "skip" conditions. A member of the Hartford Club, who lived midway between Hartford and Springfield could hear both places, so he jumped into the breach and relayed the message. While Maxim was thereafter careful to attach no particular significance to the relay (relaying had been going on in the midwest for some time), he came to realize that with the rapid growth of amateur radio we needed a national organization to guide and coordinate the efforts of amateurs and experimenters, and to represent them at the national level in order to protect their interests.

This concept of a national organization of radio amateurs was presented by Maxim to the Hartford Radio Club on April 6, 1914, with the recommendation it be called the American Radio Relay League. The idea was accepted, and the club voted to take charge of the development of such an organization; and so the League was born. Needless to say, the rapidity of its growth exceeded all expectations. Today the League numbers among its ranks the great majority of active and highly skilled amateurs, as well as the thousands of newcomers who some day will be able to make their own contribution to the science of communication, or in the field of great service to the public in time of disaster.

By the year 1917, it had become evident that organizational expansion was necessary. In February of that year, the first constitution, and policies, were adopted. The country was divided into six divisions, and twelve directors were elected, six of whom were known also as division managers. The West Gulf Division, formed at that meeting, was represented by Frank M. Corlett, an outstanding radio pioneer of Dallas, Texas. Frank served brilliantly as director for many years, and remained intensely interested in amateur affairs until passing away in the year 1973.

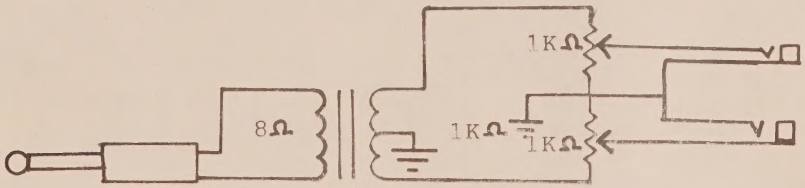
THE AMERICAN RADIO RELAY LEAGUE (Cont'd)

The League's consistent leadership and influence concerning amateur affairs on the national and international scene continues undiminished. Moving into the space age, the League is actively supporting the amateur satellite program and all other forward-looking aspects of amateur radion. Incidentally, much of the burden of developing the U.S. position on amateur frequencies and rules, in preparation for the 1979 World Administrative Radio Conference has been, and is being done by the League.

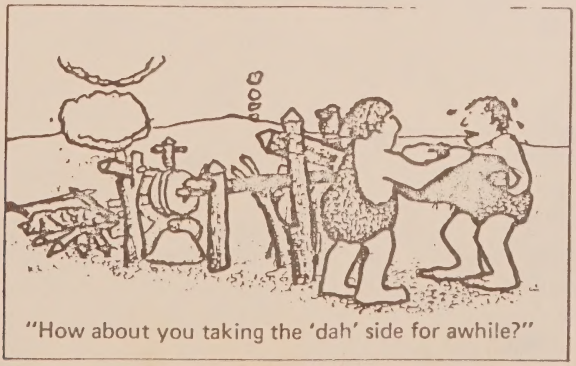
Confident in its policies, respondive to the membership, and courageous in defense of the amateurs right to use the frequencies amateurs have developed, the League looks forward to the future with the same spirit of interest and enthusiasm that inspired our great founder, Hiram Percy Maxim.

********** 73, W5EYB/N5RA Roy Albright **********

FIELD DAY HEADSET SPLITTER: One of the problems encountered at Field Day by those using headphones to cut down on the various noises heard is that the logger or other interested person cannot hear the action. The perfect solution is to have a headset splitter. A good splitter should have separate volume controls since no two persons possess the same hearing accuity. A very simple and inexpensive project is described below. The transformer is an inexpensive 500-1 OHM to 8 OHM speaker transformer (cheap even at Radio Shack) and the volume pots are 500-1, 000 OHM. The only other components are one male, two female key jacks and a small box to house the project. This type of passive device has been tested at several Field Day and other contests and it works like a charm.



********** Mercer KØVIF **********



"How about you taking the 'dah' side for awhile?"

From The Ham Call.

DFGK
GEORGE F. MUNSCH
11314 JANET LEE DRIVE
SAN ANTONIO, TX, 78230

SAN ANTONIO RADIO CLUB
PO BOX 62
San Antonio, Texas 78291

Address Correction Requested
Forwarding and Return Postage
Guaranteed

NonProfit Organization
U.S. Postage Paid
San Antonio, Texas

Permit No. 2886

SAN ANTONIO RADIO CLUB

W5SC

San Antonio
Texas

Site of the 1968 ARRL National Convention and HemisFair '68®